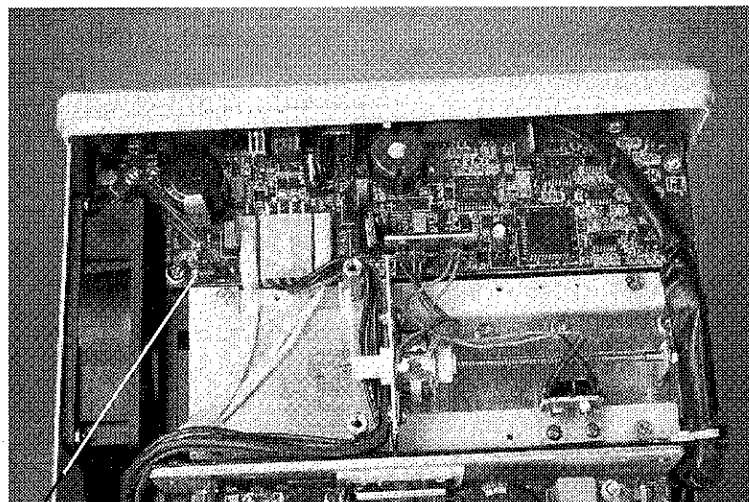


Circulation Fan with Wiring Harness Replacement (Continued)

Step 1 Removing the Circulation Fan w/ Wiring Harness

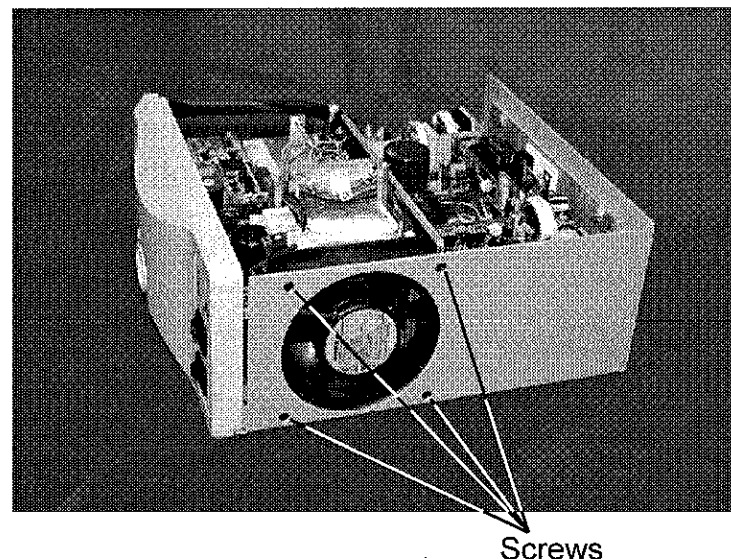
- a. Remove the circulation fan wiring harness female connector from the J13 receptacle on the controller printed circuit board (PCB).



J13

Figure 7-16
J13 Location on the Controller PCB

- b. Using a small Phillips screwdriver, remove the four flat head Phillips screws that secure the circulation fan to the main chassis.



Screws

Figure 7-17
Location of the Circulation Fan Screws

- c. Lift the circulation fan w/ wiring harness up and out of the main chassis.

Circulation Fan with Wiring Harness Replacement (Continued)

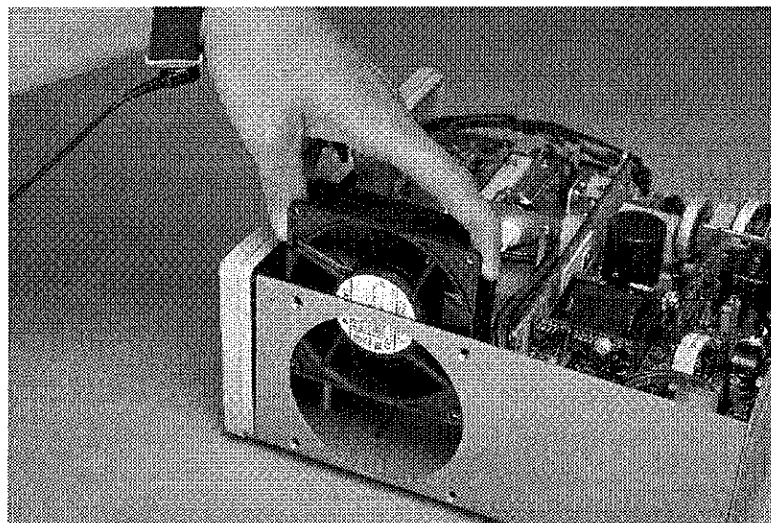


Figure 7-18
Removing the Circulation Fan

Step 2 Installing the Circulation Fan w/ Wiring Harness

- a. Set the fan down into the unit. The fan should be placed so that the fan wiring harness is oriented towards the top and front of the unit. Align the Pem inserts on the circulation fan with the four mounting holes and round cut-out in the side of the main chassis.

- b. Install and tighten the four flat head Phillips screws that secure the circulation fan w/ wiring harness to the main chassis.
- c. Insert the circulation fan wiring harness female connector onto the J13 receptacle on the controller PCB and gently press until completely seated.

CAUTION: There is a receptacle on the power supply assembly that is labeled "Fan". The fan wiring harness **MUST NOT** be connected to this receptacle. If the fan wiring harness is connected to this receptacle, the fan will not run at the correct speed and the unit will overheat.



7.4.13 Power Supply Assembly Replacement

Replacement Part Number 3600-015

Included in Kit: Power supply assembly Cable clamp	Tools Required: Phillips screwdriver (medium) 5/16" wrench
Available in Fastener Kit: 6-32 × .250" Phillips Sems screw (×2) 6-32 Keps nuts (×2)	

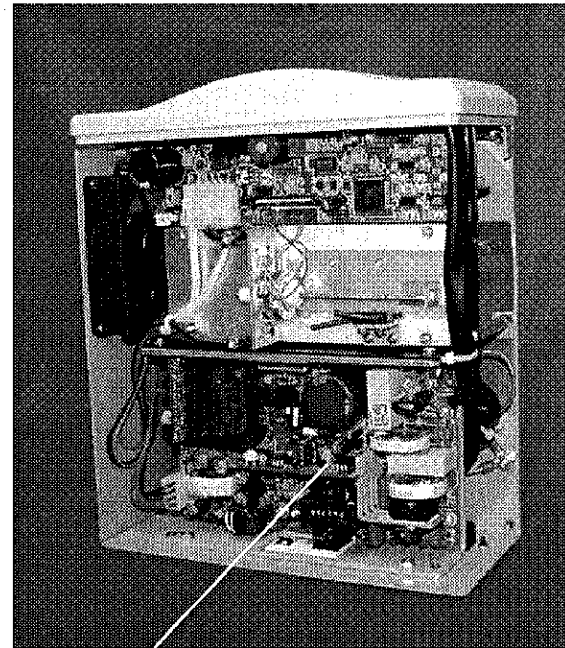
Procedure

Removed / Installed During Process:

- Light access door (See Section 5.4, Steps 2-4 for more detailed instructions.)
- Outer cover assembly (See Section 7.4.7 for more detailed instructions.)
- Wiring harness, 24 Volt (See Section 7.4.11 for more detailed instructions.)
- Power supply assembly

WARNING: Electrical shock hazard: Disconnect the electrical supply before attempting to make any repairs to the device.

CAUTION: Electronic components used in this device are subject to damage from static electricity. Repairs made to this device must be performed only in an antistatic, ESD-protected environment.



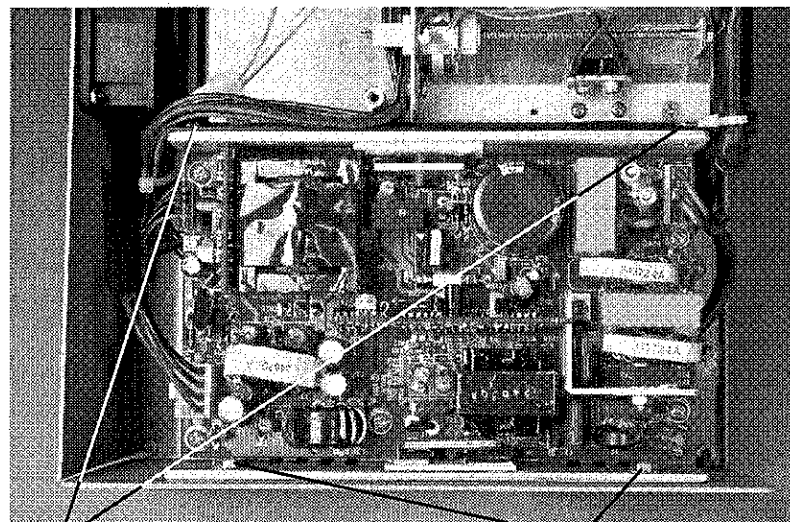
Power Supply Assembly



Chapter 7: Repair & Replacement

Power Supply Assembly Replacement (Continued)

- a. Using a 5/16" wrench, remove the two Keps nuts that secure the power supply assembly to the studs on the back of the main chassis.
- b. Using a medium Phillips screwdriver, remove the two Phillips Sems screws that secure the power supply assembly to the linear slide inner chassis.



Screws

Nuts

Figure 7-19
Power Supply Assembly, Nut, and Screw Location

- c. While supporting the power supply assembly, push the back of the main chassis outwards and remove the power supply assembly from the studs on the back of the main chassis.

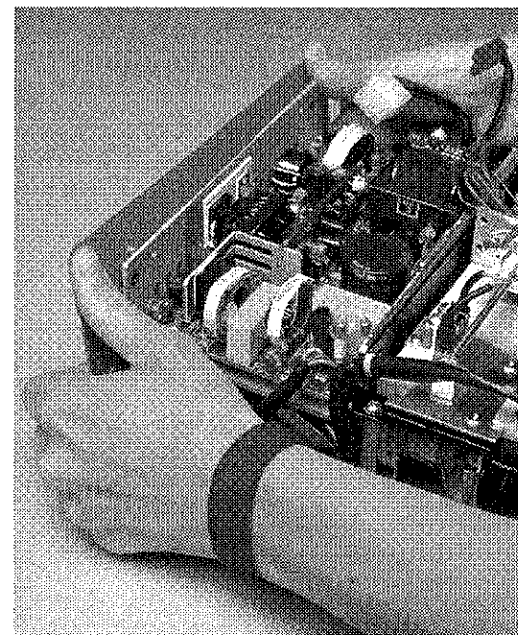
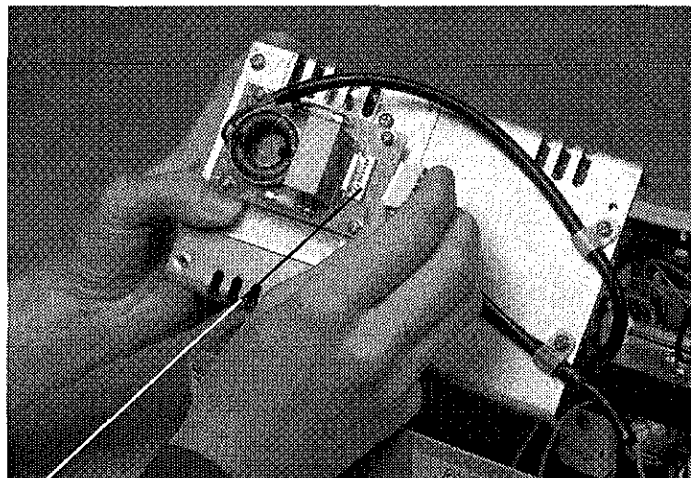


Figure 7-20
Freeing the Power Supply Assembly from the Studs

Power Supply Assembly Replacement (Continued)

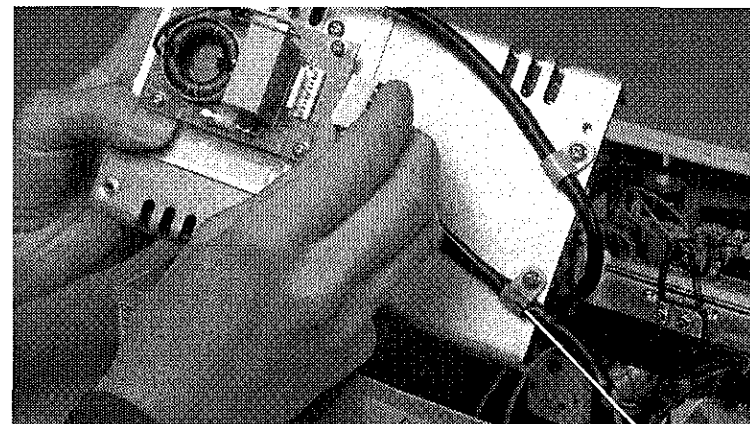
- d. Lift the power supply assembly up from the unit until there is enough clearance to reach the AC power wiring harness connector on the bottom of the power supply assembly.
- e. Remove the connector from the J1 receptacle on the power supply assembly.



J1

Figure 7-21
J1 Receptacle on the Power Supply

- f. Using a medium Phillips screwdriver, remove the Phillips Sems screw from the wire clamp on the bottom of the power supply assembly used to secure the AC power wiring harness to the power supply assembly.



Wire Clamp

Figure 7-22
Location of the AC Power Wiring Harness Wire Clamp

- g. Remove the power supply assembly.



Power Supply Assembly Replacement (Continued)

Step 2 Installing the Power Supply Assembly

- a. While holding the power supply assembly slightly above the unit, insert the AC power wiring harness male connector into the J1 receptacle on the power supply assembly and gently press until it “snaps” into place.
- b. Install and tighten the Phillips screw that secures the AC power wiring harness wire clamp to the bottom of the power supply assembly.
- c. While pushing the back of the main chassis outwards, align the power supply assembly with the studs on the back of the main chassis and the mounting holes in the linear slide inner chassis.
- d. Install and tighten the two Keps nuts that secure the power supply assembly to the studs on the back of the main chassis.
- e. Install and tighten the two Phillips screws that secure the power supply assembly to the linear slide inner chassis.



7.4.14 Front Panel Assembly Replacement

Replacement Part Number (U.S. and Canada) 3600-025

Replacement Part Number (International) 3600-041

Included in Kit: Front panel User interface overlay label Wallaby logo overlay label Optical filter assembly AC power switch w/ wiring harness Light level switch w/ fiber bundle micro switch and wiring harness Fiber bundle connector assembly Ball plunger latch screw Grounding wire Ferrite	Tools Required: Phillips screwdriver (medium) Phillips screwdriver – flexible (medium) Phillips screwdriver (small) Diagonals 5/16" wrench
Available in Fastener Kit: 6-32 × .250" Phillips Sems screw (×4) 4-40 × .250" Phillips screw (×2) 4-40 × .625" Phillips screw (×3) 2-56 × .500" Phillips screw (×2) 2-56 nut (×2) Standoff, 1.25" (×2) Cable tie	

Procedure

Removed / Installed During Process:

- Light access door (See Section 5.4, Steps 2-4 for more detailed instructions.)
- Outer cover assembly (See Section 7.4.7 for more detailed instructions.)
- Circulation fan w/ wiring harness (See Section 7.4.12 for more detailed instructions.)
- Power supply assembly (See Section 7.4.13 for more detailed instructions.)
- Front panel assembly

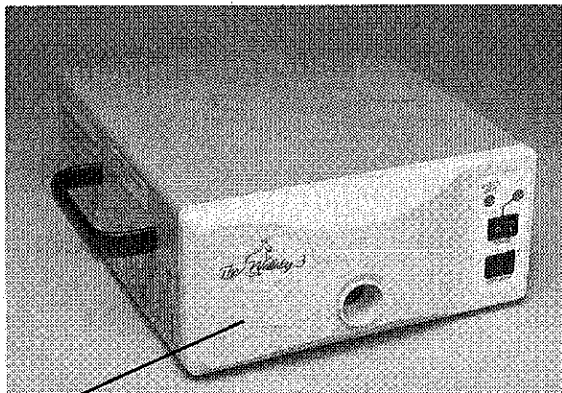
WARNING: Electrical shock hazard: Disconnect the electrical supply before attempting to make any repairs to the device.

CAUTION: Electronic components used in this device are subject to damage from static electricity. Repairs made to this device must be performed only in an antistatic, ESD-protected environment.

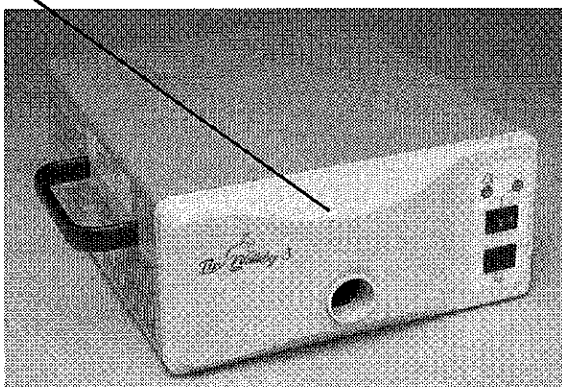


Front Panel Assembly Replacement (Continued)

U.S. and Canada



Front Panel Assembly



International

Step 1 Removing the Front Panel Assembly

- Using diagonals, cut the cable tie that secures the AC power wiring harness to the linear slide inner chassis.
- Using a 5/16" wrench, remove the first Keps nut that secures the AC power wiring harness ground wire (with ring terminal) to the grounding stud on the bottom of the main chassis.

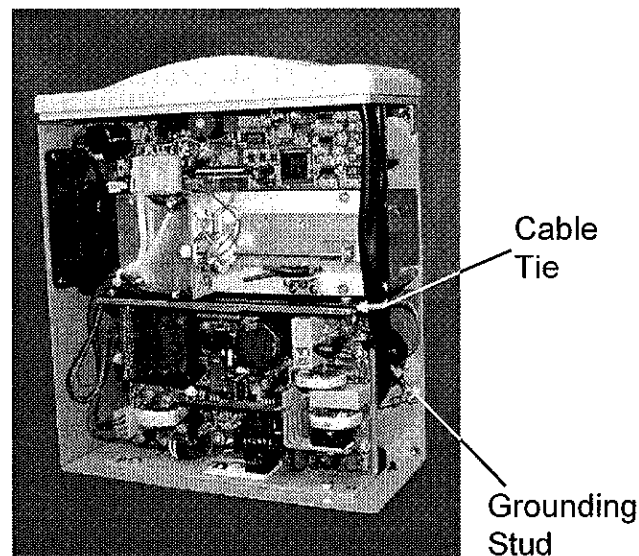
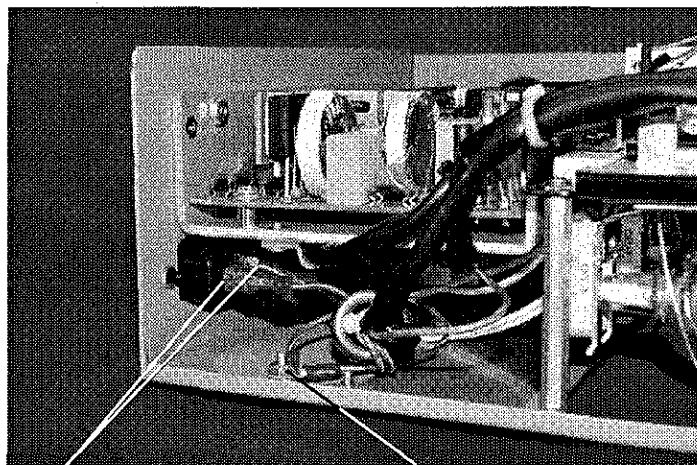


Figure 7-23
AC Power Wiring Harness Cable Tie and Grounding Wire Locations



Front Panel Assembly Replacement (Continued)

- c. Slide the AC power wiring harness ground wire (with ring terminal) off the grounding stud.
- d. Remove the AC power wiring harness female connectors by pulling the connectors straight out from the posts on the AC power inlet.



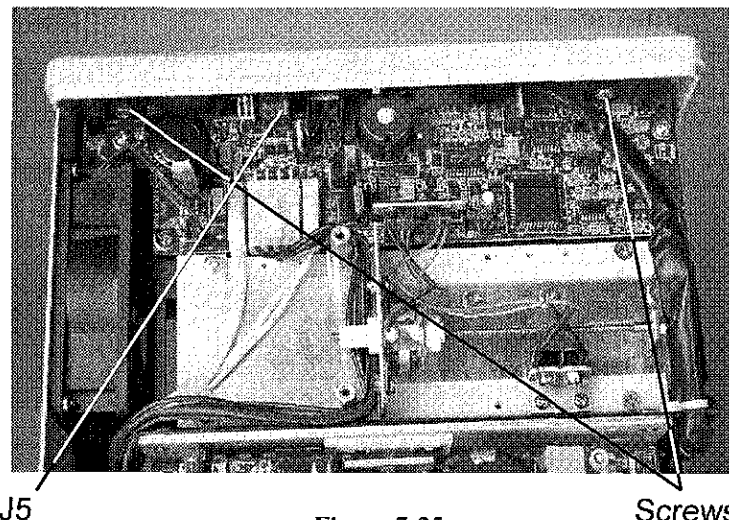
AC Power Connection

Grounding Stud

Figure 7-24
AC Power Inlet Connections

- e. Remove the light level switch w/ fiber bundle micro switch wiring harness female connector from the J5 receptacle on the controller printed circuit board (PCB).

- f. Using a medium, flexible Phillips screwdriver, remove the two Phillips Sems screws that secure the top of the front panel assembly to the linear slide inner chassis.



J5

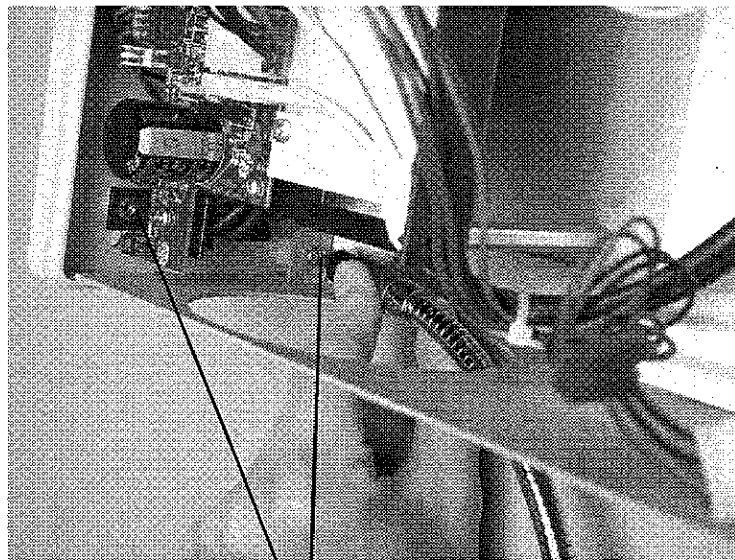
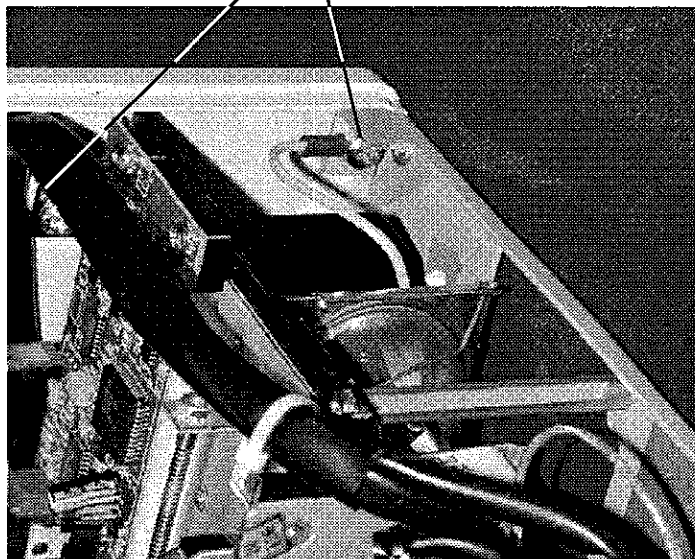
Screws

Figure 7-25
J5 and Screw Location on the Controller PCB

- g. Using a medium, flexible Phillips screwdriver, remove the two Phillips Sems screws that secure the bottom of the front panel assembly to the main chassis. Remove lamp heat shield grounding wire ring terminal. Note that the optical filter bracket ground wiring harness ring terminal is also secured by the bottom, left screen.



Front Panel Assembly Replacement (Continued)



Screws

*Figure 7-26
Screw Location on the Main Chassis*



Front Panel Assembly Replacement (Continued)

- h. Working from the front of the unit, slide the front panel assembly towards the left side of the unit and then rotate the right side of the front panel assembly away from the unit.
- i. Pull the front panel assembly away from the unit.

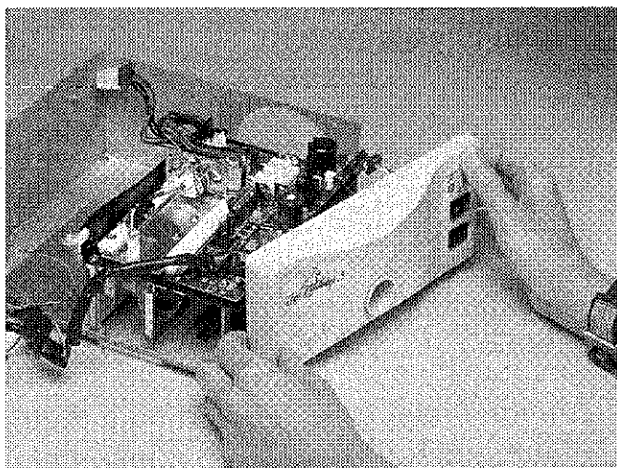
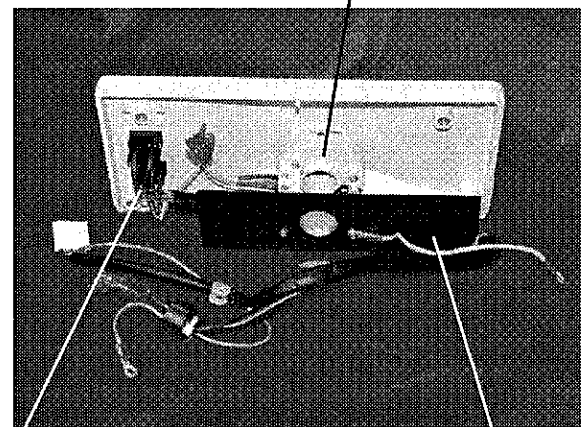


Figure 7-27
Front Panel Assembly Removal

NOTE:

The optical filter assembly, light level switch w/ fiber bundle micro switch and wiring harness, and fiber bundle connector assembly can be removed / installed without disconnecting the AC power wiring harness w/ switch. See this section (7.4.14), Steps E through I for partial front panel assembly removal and Steps A through F for partial front panel assembly installation.

Fiber Bundle Connector Assembly



Light Level Switch

Optical filter Assembly

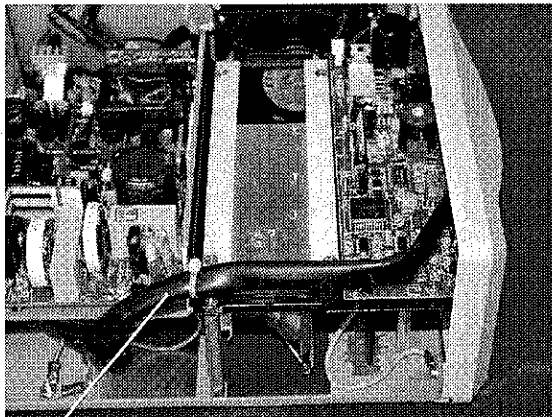
Figure 7-28
Components that Can Be Removed without Removing the AC Power Wiring Harness



Front Panel Assembly Replacement (Continued)

Step 2 Installing the Front Panel Assembly

- a. Working from the front of the unit, align the front panel assembly with the linear slide inner chassis and the main chassis.
- b. Rotate the left side of the front panel slide assembly away from the unit to allow for clearance of the light filter assembly. Then slide the front panel assembly towards the right side of the unit and set into place.
- c. Ensure that the AC power wiring harness is correctly positioned above the controller PCB and the linear slide inner chassis.



AC Power Wiring Harness

Figure 7-29

Correct Placement of the AC Power Wiring Harness

- d. Install and tighten the two Phillips Sems screws that secure the front panel assembly to the linear slide inner chassis.
- e. Install and tighten the two Phillips Sems screws that secure the front panel assembly and the filter bracket ground wiring harness ring terminal to the main chassis.
- f. Verify proper contact between the grounding spring on the optical filter assembly and the main chassis.
- g. Insert the light level switch w/ fiber bundle micro switch wiring harness female connector onto the J5 receptacle on the controller PCB and gently press until completely seated.
- h. Align the AC power wiring harness female connectors with the receptacles on the AC power inlet and gently push the connectors onto the receptacles.

NOTE: The blue wire is connected to the post nearest the side of the unit and the brown wire is connected to the post nearest the middle of the unit.

- i. Slide the AC power wiring harness grounding wire ring terminal onto the grounding stud.
- j. Install and tighten the Keps nut onto the grounding stud.
- k. Using the cable tie provided, secure the AC power wiring harness to the linear slide inner chassis.



7.4.15 Grounding Kit Replacement

Replacement Part Number 3600-035

Included in Kit:	Tools Required:
Contact strip (heat sink - self-adhesive) Wiring harness, filter bracket ground Ground spring gasket (panel inlet)	Phillips screwdriver (small) Phillips screwdriver (medium) 5/16" wrench or socket Isopropyl alcohol Cleaning cloth
Available in Fastener Kit: Standoff, 1.25"	

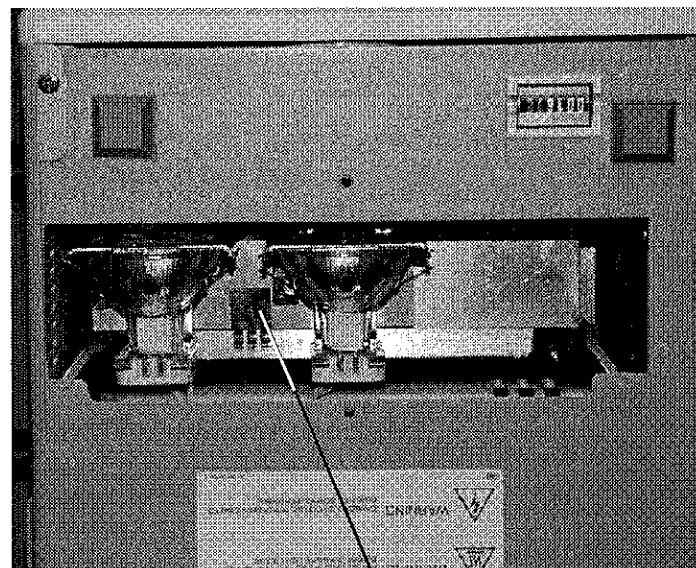
Procedure

Removed / Installed During Process:

- Light access door (See Section 5.4, Steps 2-4 for more detailed instructions.)
- Outer cover assembly (See Section 7.4.7 for more detailed instructions.)
- Front panel assembly partial (See Section 7.4.14, Steps E through J, for more detailed instructions.)
- Optical filter assembly (See Section 7.4.18 for more detailed instructions.)
- Grounding kit

WARNING: Electrical shock hazard: Disconnect the electrical supply before attempting to make any repairs to the device.

CAUTION: Electronic components used in this device are subject to damage from static electricity. Repairs made to this device must be performed only in an antistatic, ESD-protected environment.



Heat Sink Contact Strip



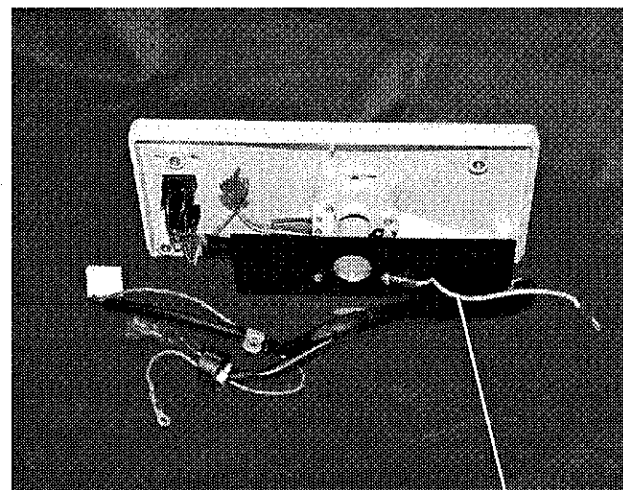
Grounding Components Replacement (Continued)

Step 1 Removing the Heat Sink Contact Strip

- On a protected work surface, carefully turn the unit over exposing the bottom of the main chassis.
- Note the location of the heat sink contact strip.
- Starting at one corner, peel the contact strip from the heat sink.
- Using isopropyl alcohol and a cleaning cloth, remove any remaining adhesive residue from the heat sink.

Step 2 Installing the Heat Sink Contact Strip

- Remove the protective backing from the heat sink contact strip.
- Align the contact strip to the position of the original contact strip on the heat sink.
- Secure the contact strip to the heat sink by pressing firmly in place.



Filter Bracket Ground Wiring Harness

Step 3 Removing the Filter Bracket Ground Wiring Harness

- On a protected work surface, carefully place the front panel assembly so the filter bracket ground wiring harness is accessible.
- Using a small Phillips screwdriver, remove the screws that secure the filter bracket ground wiring harness to the optical filter bracket.



Grounding Components Replacement (Continued)

Step 4 Installing the Filter Bracket Ground Wiring Harness

- Align the filter bracket ground wiring harness w/ the screw hole in the optical filter bracket.
- Using a small Phillips screwdriver, tighten and secure the screw.

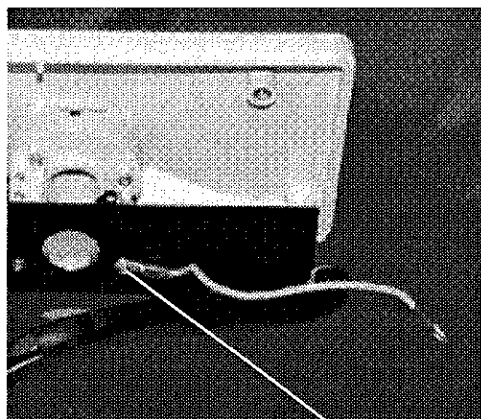


Figure 7-30
Phillips Screw Location

Phillips Screw

Step 5 Removing the Panel Input Ground Spring Gasket

- Remove the optical filter assembly (see Section 7.4.18) from the front panel assembly. See 7-69, Figure 7-35, for the location of the panel input ground spring gasket.
- Using a 5/16" wrench or socket, remove the standoff that secures the ground spring gasket to the fiber bundle connector assembly.
- Remove the ground spring gasket.

Step 6 Installing the Panel Input Ground Spring Gasket

- Align the ground spring gasket with the hole in the fiber bundle connector assembly.
- Using a 5/16" wrench or socket, secure the ground spring gasket to the fiber bundle connector assembly by installing and tightening the 1.25" standoff.
- Reinstall the optical filter assembly (see Section 7.4.18).



7.4.16 Hour Meter Wiring Harness Replacement

Replacement Part Number 3600-023

Included in Kit:	Tools Required:
Hour meter wiring harness	Phillips screwdriver (medium) Phillips screwdriver – flexible (medium) Phillips screwdriver (small) 5/16" wrench

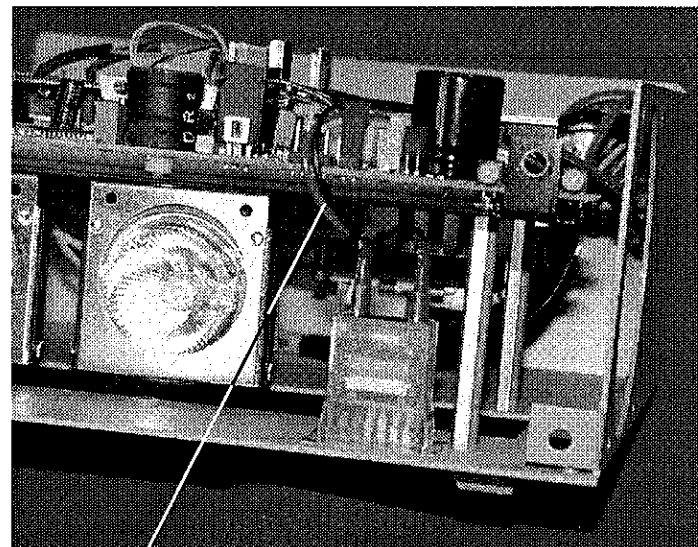
Procedure

Removed / Installed During Process:

- Light access door (See Section 5.4, Steps 2-4 for more detailed instructions.)
- Outer cover assembly (See Section 7.4.7 for more detailed instructions.)
- Circulation fan w/ wiring harness (See Section 7.4.12 for more detailed instructions.)
- Power supply assembly (See Section 7.4.13 for more detailed instructions.)
- Front panel assembly partial (See Section 7.4.14 , Steps E through J, for more detailed instructions.)
- Hour meter wiring harness

WARNING: Electrical shock hazard: Disconnect the electrical supply before attempting to make any repairs to the device.

CAUTION: Electronic components used in this device are subject to damage from static electricity. Repairs made to this device must be performed only in an antistatic, ESD-protected environment.



Hour Meter
Wiring Harness

Hour Meter Wiring Harness Replacement (Continued)

Step 1 Removing the Hour Meter Wiring Harness

- a. Remove the hour meter wiring harness female connector from the J6 receptacle on the controller printed circuit board (PCB).

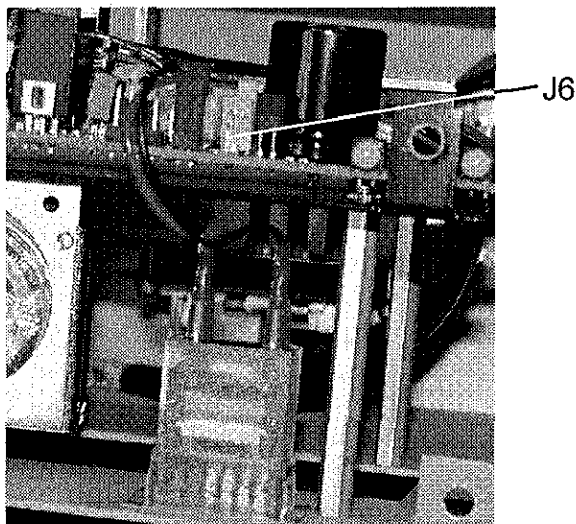


Figure 7-31
J6 Location on the Controller PCB

- b. Remove the hour meter wiring harness female connectors by pulling the connectors straight up from the posts (red on "+" and black on "-") on the hour meter.

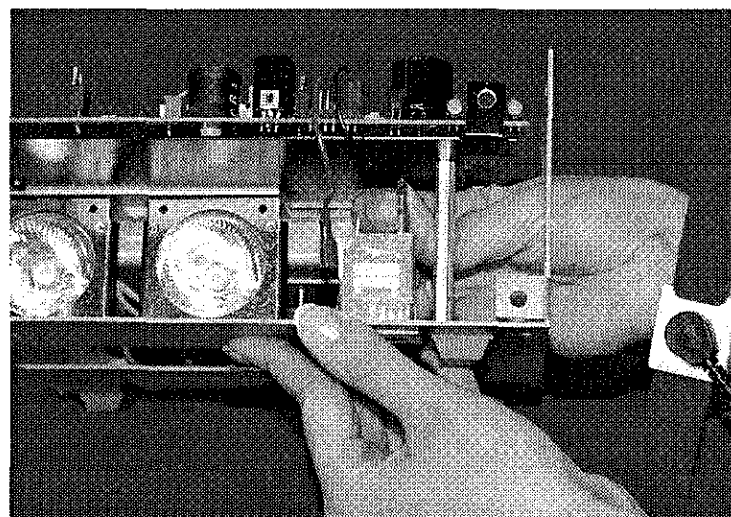


Figure 7-32
Removing the Connectors from the Hour Meter